

TABLE 1
NOER/LOER DATABASE SUMMARY
 FISH TISSUE SCREENING LEVEL DEVELOPMENT
 OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY

Analyte	Phase 1 ¹	Phase 2 ²			
	Tissue Screening Level via BCF Approach?	SETAC Database (Jarvinen and Ankley, 1998)	ERED Database (COE, 2005)	Combined Databases	
		Data Points ³	Data Points ³	Acceptable NOER/LOER Pairs ⁴	Acceptable NOER/LOER Pairs (unique species) ⁵
Arsenic	Yes	47	154	11	2
Cadmium	Yes	488	1,149	52	29
Chlordane	Yes	0	60	4	4
Lead	Yes	42	406	7	4
Pentachlorophenol	Yes	33	237	9	4
Total PCBs (as 2,3,7,8-TCDD toxicity equivalents)	Yes	104	188	4	3
Total PCBs (as Aroclors)	Yes	101	233	17	8
Pyrene ⁶	No	17	35	1	1
Selenium - Inorganic	Yes	136	451	26	5
Selenium - Organic		11	0	4	2
Tributyltin	Yes	66	350	3	2
Dioxins and Furans (as 2,3,7,8-TCDD toxicity equivalents)	No	94	466	16	4
Fluoranthene ⁷	No	9	139	3	2
Hexachlorobenzene ⁸	No	27	89	2	2
Mercury - Inorganic	Yes	134	366	16	7
Mercury - Organic	Yes	105	180	2	2
Total DDT	Yes	102	154	16	9
4,4'-DDT	Yes	102	154	16	9
4,4'-DDE	Yes	4	131	0	0
4,4'-DDD	Yes	2	15	0	0

Notes:

¹Issue screening levels calculated in Phase 1 using the BCF x AWQC approach.

²Endpoint selection criteria for Phase 2 followed the Stevens et al. (2005) approach.

³Number of studies that simultaneously report both endpoints

⁴Duplicate NOER/LOER pairs were removed from the combined database.

⁵Only one NOER/LOER pair for each species will be used to calculate the species sensitivity distribution for each analyte.

⁶ERED database had one additional LOER data point, while pyrene studies in SETAC database all used the same test species. Only one unique test species for LOER data points.

⁷ERED database had three additional LOER data points, while fluoranthene LOER data points in SETAC database were all determined using the same test species. Four unique test species for LOER data points. However, species are two species of copepods (*Coullana* sp and *Schizopore knabeni*), amphipod (*Diporeia* sp.), and mussel (*Mytilus edulis*).

⁸ERED database had two additional LOER data points, while hexachlorobenzene LOER datapoints in SETAC database were all determined using the same test species. Only three unique test species for LOER data points.

NOER = No observed effect residue

LOER = Lowest observed effect residue

Shading indicates that there are at least four acceptable NOER/LOER pairs.